



Product Description

MASTER TL5 High Output Xtra

Low-pressure high-output mercury discharge lamps with a tubular 16 mm envelope

Benefits

- Compact lamp with high lumen package
- Longer lifetime and fewer early failures mean lower maintenance costs and facilitate change from spot to group replacement
- Less waste and disposal cost at end-of-life
- Allow system miniaturization with maximum luminaire design freedom
- Optimized for installations which need high luminous flux
- Excellent lumen maintenance
- Good color rendering

Features

- Significant reduction of early failures through advanced long life technology
- Extra long lifetime and high reliability
- Designed for high lumen output and system miniaturization (40% thinner than TL-D lamps)
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear
- Maximum lumen output reached at approx. 35 °C in free-burning position
- Can be ignited from -15 ° to +50 °C
- Low mercury dose
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps

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Application

- Where maintenance costs are high, e.g. high ceilings or other hard-to-reach locations
- Department stores, supermarkets, warehouses, production halls and public areas like car parks and railway stations
- Architectural lighting and customized solutions
- Economic solutions for high-ceiling lighting in shops, industry and department stores
- Aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

Warnings and Safety

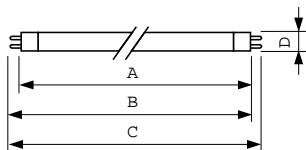
- Philips HF Xtreme gear ensures longest lifetime.
- To achieve lifetimes as published for 100% operation, dimming below 30% should not be applied.
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

Versions



G5, T5

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO Xtra 80W/840 SLV/20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO Xtra 49W/840 SLV/20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO Xtra 54W/840 SLV/20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

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Approval and Application

Mercury (Hg) Content (Nom)	3.0 mg
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Controls and Dimming

Dimmable	Yes
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General Information

Cap-Base	G5
Life To 50% Failures Preheat (Nom)	45000 h
LSF Preheat 16000 h Rated	98 %
LSF Preheat 20000 h Rated	97 %
LSF Preheat 2000 h Rated	100 %
LSF Preheat 4000 h Rated	99 %
LSF Preheat 6000 h Rated	99 %
LSF Preheat 8000 h Rated	99 %
System Description	High Output (HO)

Light Technical

Color Code	840
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Color Rendering Index (Max)	85
Color Rendering Index (Min)	80
Color Rendering Index (Nom)	82
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 2000 h Rated	96 %
LLMF 20000 h Rated	90 %
LLMF 4000 h Rated	95 %
LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %

Mechanical and Housing

Bulb Shape	T5
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Temperature

Design Temperature (Nom)	35 °C
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Energy Efficiency Label
		1000 h	(EEL)
26253005	MASTER TL5 HO Xtra 49W/840 1SL/20	54 kWh	A+
26352005	MASTER TL5 HO Xtra 54W/840 1SL/20	57 kWh	A+
26303205	MASTER TL5 HO Xtra 80W/840 1SL/20	88 kWh	A

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
26253005	MASTER TL5 HO Xtra 49W/840 1SL/20	0.255 A	49.2 W
26352005	MASTER TL5 HO Xtra 54W/840 1SL/20	0.455 A	54.1 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
26303205	MASTER TL5 HO Xtra 80W/840 1SL/20	0.530 A	79.8 W

Light Technical

MASTER TL5 High Output Xtra

Order Code	Full Product Name	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
26253005	MASTER TL5 HO Xtra 49W/840 1SL/20	99 lm/W	89 lm/W	4900 lm	4375 lm
26352005	MASTER TL5 HO Xtra	93 lm/W	83 lm/W	5000 lm	4500 lm

Order Code	Full Product Name	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
	54W/840 1SL/20				
26303205	MASTER TL5 HO Xtra 80W/840 1SL/20	88 lm/W	80 lm/W	7000 lm	6400 lm

